

WHAT IS CLAIMED IS:

1. A short message service gateway, comprising:

a short message interfacing device for

5 receiving/sending short messages from/to outside of the short message service gateway;

a short message service engine, in response to a request for information service included in a short message received by the short message interfacing device, for requesting the information service from at least one application server and receiving result of the information service, and then sending the result of the information service back to the short message interfacing device in a form of short message.

15 2. The short message service gateway according to claim 1, characterized in that the short message interfacing device is a short message daemon communicating with at least one short message apparatus.

20 3. The short message service gateway according to claim 1, characterized in that the short message interfacing device is a short message center interface communicating with at least one short message center.

4. The short message service gateway according to claim 1, characterized by further comprising:

a short message center administrating device, for administrating a plurality of short message centers based on a short message center profile.

5. The short message service gateway according to claim 1, characterized by further comprising:

a user administrating device, for administrating a plurality of users based on a user profile.

6. The short message service gateway according to claim 1, characterized by further comprising:

10 an apparatus administrating device, for administrating a plurality types of mobile telephones based on an apparatus profile.

7. The short message service gateway according to claim 1, characterized by further comprising:

15 an application administrating device, for administrating a plurality of application servers based on an application profile.

8. The short message service gateway according to claim 1, characterized in that the short message service engine, based on items of information service for which a user has subscribed, requests the information service from at least one application server and receives the result of the information service, and then sends the result of the

information service back to the short message interfacing device in a form of short message.

9. A system of providing information service for mobile telephones, comprising:

5 at least one application server, for receiving requests for information service, and providing results of the information service;

10 at least one short message center, for forwarding short messages from/to the mobile telephones;

15 characterized by further comprising:

a short message service gateway) comprising:

20 a short message center interface for receiving /sending short messages from/to at least one short message center; and

25 a short message service engine, in response to a request for information service included in a short message received by the short message center interface, for requesting the information service from said at least one application server and receiving result of the information service, and then sending the result of the information service back to the short message center interface in a form of short message.

10. The system according to claim 9,
25 characterized in that the short message service gateway further comprises:

a short message center administrating device, for administrating a plurality of short message centers based on a short message center profile.

5 11. The system according to claim 9, characterized in that the short message service gateway further comprises:

a user administrating device, for administrating a plurality of users based on a user profile.

10 12. The system according to claim 9, characterized in that the short message service gateway further comprises:

an apparatus administrating device, for administrating a plurality types of mobile telephones based on an apparatus profile.

15 13. The system according to claim 9, characterized in that the short message service gateway further comprises:

an application administrating device, for administrating a plurality of application servers based on an application profile.

20 14. The system according to claim 9, characterized in that

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the short message service engine, based on items of information service for which a user has subscribed, requests the information service from said at least one application server (110) and receives the result of the information service, and then sends the result of the information service back to the short message center interface in a form of short message.

15. A system of providing information service for mobile telephones, comprising:

10 at least one application server, for receiving requests for information service, and providing results of the information service;

15 at least one short message apparatus, for forwarding short messages from/to the mobile telephones;

characterized by further comprising:

a short message service gateway comprising:

20 a short message daemon, for receiving/sending short messages from/to said at least one short message apparatus; and

25 a short message service engine, in response to a request for information service included in a short message received by the short message daemon, for requesting the information service from said at least one application server and receiving result of the information service, and then sending the result of the information service back to the short message daemon in a form of short message.

16. The system according to claim 15, characterized in that the short message service gateway further comprises:

5 user administrating device, for administrating a plurality of users based on a user profile.

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17. The system according to claim 15, characterized in that the short message service gateway further comprises:

10 an apparatus administrating device, for administrating a plurality types of mobile telephones based on an apparatus profile.

15 18. The system according to claim 15, characterized in that the short message service gateway further comprises:

an application administrating device, for administrating a plurality of application servers based on an application profile.

20 19. The system according to claim 15, characterized in that

the short message service engine, based on items of information service for which a user has subscribed, requests the information service from said at least one application server and receives the result of the

information service, and then sends the result of the information service back to the short message daemon in a form of short message.

5 20. A method of providing information service for mobile telephones, characterized by comprising steps of:

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- a) receiving a short message from a mobile telephone;
 - b) extracting an information service code from the short message;
 - c) based on the information service code, retrieving results of the information service from at least one application server; and
 - d) combining the results of the information service into a short message and sending the short message to the mobile telephone.

10 21. The method according to claim 20, characterized in that said steps a) and d) are performed by way of short message apparatus.

15 22. The method according to claim 20, characterized in that said steps a) and d) are performed by way of short message apparatus.

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23. The method according to claim 20, characterized by further comprising a step of obtaining the information service code based on items of the information service for which a user has subscribed, without performing said steps a) and b).

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